

SEQUENCE LISTING

<110> Arena Pharmaceuticals, Inc.
 Semple, Graeme
 Skinner, Philip
 Cherrier, Martin
 Webb, Peter
 Tamura, Suki

<120> BENZOTRIAZOLES AND METHODS OF PROPHYLAXIS OR TREATMENT OF
 METABOLIC-RELATED DISORDERS THEREOF

<130> 32.W01

<150> 60/423,819

<151> 2002-11-05

<160> 4

<170> PatentIn version 3.2

<210> 1

<211> 1164

<212> DNA

<213> Homo sapien

<400> 1

```

atgaatcggc accatctgca ggatcacttt ctggaaatag acaagaagaa ctgctgtgtg      60
ttccgagatg acttcattgc caaggtgttg ccgccggtgt tggggctgga gtttatcttt      120
gggcttctgg gcaatggcct tgccctgtgg attttctgtt tccacctcaa gtccctggaaa      180
tccagccgga ttttctgtt caacctggca gtagctgact ttctactgat catctgcctg      240
ccgttcgtga tggactacta tgtgcggcgt tcagactgga actttgggga catcccttgc      300
cggctggtgc tcttcatgtt tgccatgaac cgccagggca gcatcatctt cctcacggtg      360
gtggcggtag acaggtatct ccgggtggtc catccccacc acgccctgaa caagatctcc      420
aattggacag cagccatcat ctcttgccct ctgtggggca tctactgttg cctaacagtc      480
cacctcctga agaagaagtt gctgatccag aatggccctg caaatgtgtg catcagcttc      540
agcatctgcc ataccttccg gtggcacgaa gctatgttcc tcctggagtt cctcctgccc      600
ctgggcatca tcctgttctg ctcagccaga attatctgga gcctgcggca gagacaaatg      660
gaccggcatg ccaagatcaa gagagccatc accttcatca tgggtggtggc catcgtcttt      720
gtcatctgct tccttcccag cgtggttgtg cggatccgca tcttctggct cctgcacact      780
tcgggcacgc agaattgtga agtgtagcgc tcggtggacc tggcgttctt tatcactctc      840
agcttcacct acatgaacag catgctggac cccgtggtgt actacttctc cagcccatcc      900
tttcccaact tcttctccac ttgatcaac cgctgcctcc agaggaagat gacaggtgag      960
ccagataata accgcagcac gagcgtcgag ctcacagggg accccaacaa aaccagaggc     1020
gctccagagg cgtaaatggc caactccggt gagccatgga gcccctctta tctgggcca      1080
acctcaaata accattccaa gaaggacat tgtcaccaag aaccagcatc tctggagaaa     1140
cagttgggct gttgcatcga gtaa                                           1164

```

<210> 2
 <211> 387
 <212> PRT
 <213> Homo sapien

<400> 2

Met Asn Arg His His Leu Gln Asp His Phe Leu Glu Ile Asp Lys Lys
 1 5 10 15

Asn Cys Cys Val Phe Arg Asp Asp Phe Ile Ala Lys Val Leu Pro Pro
 20 25 30

Val Leu Gly Leu Glu Phe Ile Phe Gly Leu Leu Gly Asn Gly Leu Ala
 35 40 45

Leu Trp Ile Phe Cys Phe His Leu Lys Ser Trp Lys Ser Ser Arg Ile
 50 55 60

Phe Leu Phe Asn Leu Ala Val Ala Asp Phe Leu Leu Ile Ile Cys Leu
 65 70 75 80

Pro Phe Val Met Asp Tyr Tyr Val Arg Arg Ser Asp Trp Asn Phe Gly
 85 90 95

Asp Ile Pro Cys Arg Leu Val Leu Phe Met Phe Ala Met Asn Arg Gln
 100 105 110

Gly Ser Ile Ile Phe Leu Thr Val Val Ala Val Asp Arg Tyr Phe Arg
 115 120 125

Val Val His Pro His His Ala Leu Asn Lys Ile Ser Asn Trp Thr Ala
 130 135 140

Ala Ile Ile Ser Cys Leu Leu Trp Gly Ile Thr Val Gly Leu Thr Val
 145 150 155 160

His Leu Leu Lys Lys Lys Leu Leu Ile Gln Asn Gly Pro Ala Asn Val
 165 170 175

Cys Ile Ser Phe Ser Ile Cys His Thr Phe Arg Trp His Glu Ala Met
 180 185 190

Phe Leu Leu Glu Phe Leu Leu Pro Leu Gly Ile Ile Leu Phe Cys Ser
 195 200 205

Ala Arg Ile Ile Trp Ser Leu Arg Gln Arg Gln Met Asp Arg His Ala
 210 215 220

Lys Ile Lys Arg Ala Ile Thr Phe Ile Met Val Val Ala Ile Val Phe
 225 230 235 240

Val Ile Cys Phe Leu Pro Ser Val Val Val Arg Ile Arg Ile Phe Trp
 Page 2

```

<210> 3
<211> 1092
<212> DNA
<213> Homo sapien

<400> 3
atgaatcggc accatctgca ggatcacttt ctggaaatag acaagaagaa ctgctgtgtg 60
ttccgagatg acttcattgt caaggtgttg cgcgcggtgt tggggctgga gtttatcttc 120
gggcttcttg gcaatggcct tgccctgtgg attttctgtt tccacctcaa gtcctggaaa 180
tccagccgga ttttcctgtt caacctggca gtggctgact ttctactgat catctgcctg 240
cccttcctga tggacaacta tgtgaggcgt tgggactgga agtttgggga catcccttgc 300
cggctgatgc tcttcatgtt ggctatgaac cgccagggca gcatcatctt cctcacggtg 360
gtggcggtag acaggtattt ccgggtggtc catccccacc acgccctgaa caagatctcc 420
aatcggacag cagccatcat ctcttgccct ctgtggggca tcaactattgg cctgacagtc 480
cacctcctga agaagaagat gccgatccag aatggcggtg caaatttgtg cagcagcttc 540
agcatctgcc ataccttcca gtggcacgaa gccatgttcc tcttggaagt cttcctgccc 600
ctgggcatca tcctgttctg ctcagccaga attatctgga gcctgcggca gagacaaatg 660
gaccggcatg ccaagatcaa gagagccatc accttcatca tgggtgggtggc catcgctctt 720

```

```

gtcatctgct tccttcccag cgtggttggt cggatccgca tcttctggct cctgcacact 780
tcgggcacgc agaattgtga agtgtagcgc tcggtggacc tggcgttctt tatcactctc 840
agcttcacct acatgaacag catgctggac cccgtggtgt actacttctc cagcccatcc 900
tttcccaact tcttctccac ttgatcaac cgctgcctcc agaggaagat gacaggtgag 960
ccagataata accgcagcac gagcgtcgag ctacacagggg accccaacaa aaccagaggg 1020
gctccagagg cgtaaatggc caactccggt gagccatgga gcccctctta tctgggccca 1080
acctctcctt aa 1092

```

<210> 4
 <211> 363
 <212> PRT
 <213> Homo sapien

<400> 4

Met Asn Arg His His Leu Gln Asp His Phe Leu Glu Ile Asp Lys Lys
1 5 10 15

Asn Cys Cys Val Phe Arg Asp Asp Phe Ile Val Lys Val Leu Pro Pro
20 25 30

Val Leu Gly Leu Glu Phe Ile Phe Gly Leu Leu Gly Asn Gly Leu Ala
35 40 45

Leu Trp Ile Phe Cys Phe His Leu Lys Ser Trp Lys Ser Ser Arg Ile
50 55 60

Phe Leu Phe Asn Leu Ala Val Ala Asp Phe Leu Leu Ile Ile Cys Leu
65 70 75 80

Pro Phe Leu Met Asp Asn Tyr Val Arg Arg Trp Asp Trp Lys Phe Gly
85 90 95

Asp Ile Pro Cys Arg Leu Met Leu Phe Met Leu Ala Met Asn Arg Gln
100 105 110

Gly Ser Ile Ile Phe Leu Thr Val Val Ala Val Asp Arg Tyr Phe Arg
115 120 125

Val Val His Pro His His Ala Leu Asn Lys Ile Ser Asn Arg Thr Ala
130 135 140

Ala Ile Ile Ser Cys Leu Leu Trp Gly Ile Thr Ile Gly Leu Thr Val
145 150 155 160

His Leu Leu Lys Lys Lys Met Pro Ile Gln Asn Gly Gly Ala Asn Leu
165 170 175

Cys Ser Ser Phe Ser Ile Cys His Thr Phe Gln Trp His Glu Ala Met
Page 4

180										185										190																																			
Phe	Leu	Leu	Glu	Phe	Phe	Leu	Pro	Leu	Gly	Ile	Ile	Leu	Phe	Cys	Ser																																								
		195					200					205																																											
Ala	Arg	Ile	Ile	Trp	Ser	Leu	Arg	Gln	Arg	Gln	Met	Asp	Arg	His	Ala																																								
		210				215					220																																												
Lys	Ile	Lys	Arg	Ala	Ile	Thr	Phe	Ile	Met	Val	Val	Ala	Ile	Val	Phe																																								
		225			230					235					240																																								
Val	Ile	Cys	Phe	Leu	Pro	Ser	Val	Val	Val	Arg	Ile	Arg	Ile	Phe	Trp																																								
				245					250					255																																									
Leu	Leu	His	Thr	Ser	Gly	Thr	Gln	Asn	Cys	Glu	Val	Tyr	Arg	Ser	Val																																								
			260					265					270																																										
Asp	Leu	Ala	Phe	Phe	Ile	Thr	Leu	Ser	Phe	Thr	Tyr	Met	Asn	Ser	Met																																								
		275					280					285																																											
Leu	Asp	Pro	Val	Val	Tyr	Tyr	Phe	Ser	Ser	Pro	Ser	Phe	Pro	Asn	Phe																																								
		290				295					300																																												
Phe	Ser	Thr	Leu	Ile	Asn	Arg	Cys	Leu	Gln	Arg	Lys	Met	Thr	Gly	Glu																																								
					310					315					320																																								
Pro	Asp	Asn	Asn	Arg	Ser	Thr	Ser	Val	Glu	Leu	Thr	Gly	Asp	Pro	Asn																																								
				325					330					335																																									
Lys	Thr	Arg	Gly	Ala	Pro	Glu	Ala	Leu	Met	Ala	Asn	Ser	Gly	Glu	Pro																																								
			340				345						350																																										
Trp	Ser	Pro	Ser	Tyr	Leu	Gly	Pro	Thr	Ser	Pro																																													
		355					360																																																